

Applicant submits this Amendment in response to the Office Action dated September 15, 2003. This response is timely because it is being filed within the three (3) month time period set for a response. Please amend the above-identified application as follows:

**In The Drawings:**

Please substitute the three sheets of drawings submitted herewith containing Figures 1, 2, and 3 in place of the originally filed drawing sheets containing the same figures.

**In the Detailed Description:**

Please amend page 3, paragraph [0012] to appear as follows:

[0012] (Amended) The present invention is illustrated with respect to a Computed Tomography (CT) scanning system 10, particularly suited to the medical field. The present invention is, however, applicable to various other uses that may require CT scanning, as will be understood by one skilled in the art. ~~HHK526158799~~

[0013] Referring to FIGURES 1 and 2, a CT scanning system 10 including a gantry 11, in accordance with a preferred embodiment of the present invention, is illustrated. An x-ray source 12, coupled to the gantry 11, generates an x-ray flux 17, which passes through an object 18 (e.g. a patient) and produces back-scatter radiation. The system 10 further includes a CT detector 13, coupled to the gantry 11, which generates a detector signal in response to the x-ray flux 17. A first scatter detector 19, generating a scatter signal in response to the scatter radiation, is also coupled to the gantry 11. Position and operation of the scatter detector 19 will be discussed later.

Please amend page 4, paragraph [0015] to appear as follows:

[0015] The x-ray source 12 is embodied as a flat panel x-ray source or an extended x-ray source 31 (e.g. Imatron), or a standard x-ray tube. The x-ray source